PORTLAND HARBOR UPLANDS SITES STATUS SPREADSHEET

Portland Harbor Upland Sites Status

Site (Priority in color-coding w/ legend provided at end of table)	DEQ ECSI #	Pathway(s)	Source Control Measures Status	DEQ Decision Document Target	Recontamination Potential Assigned by DEQ	EPA Comments/Concerns/Needs
Albina Georegion RM 9.9 - 11.8E	STATE OF THE PARTY.	The second second				
UPRR Albina	178	Stormwater	Cleanout/line repair in 2007, 2008, & 2013 with BMPs; effectiveness	SCD anticipated in 2015	Low	No information has been reviewed for this site.
Pacificorp - Alhina Substations	5117	Stormwater	Infiltration on site implemented in 2012	SCD anticipated in 2015	Low	Additional stormwater data collection was requested. Without additional stormwater data from larger precipitation events, EPA cannot confirm the conclusion that the Albina Substation is not likely to result in future sediment recontainination or contribute to unacceptable risk. This uncertainty may be alleviated through review of the conditions under which the March 2012 CoP stormwater sampling was performed.
Tarr Inc.	1139	Groundwater	Soil vapor extraction system operated 2009-12	SCD anticipated in 2016	Low	Review of the upland remedy will be necessary to ensure it is adequate to address VOC migration to the river and that it includes an adequate monitoring program. EPA found documents to be deficient in identifying if source controls are necessary to prevent recontamination after sediment cleanup. SCE deferred to feasibility study.
Glacier Northwest	5449	Stormwater	BMPs implemented in 2012; effectiveness pending	SCD anticipated in 2015	Low	Additional stormwater sampling was requested as the SCE report provides
		Groundwater	Anticipated to be excluded			insufficient stormwater sampling data. The weight-of-evidence analysis is
		Riverhank Erosion	SCM needed - Integrate with in-water remedy			incomplete and does not fully support the recommendation for no further stormwater source control measures. The low priority for source control designation for the riverbank is not applicable to 425 square feet of unarmored riverbank in the southern portion of the site.
Westinghouse	4497	Stormwater	Infiltration & discharge to POTW implemented in 2012	SCD anticipated in 2015	Low	The primary point of concern was the number and location of monitoring wells
		Groundwater	Anticipated to be excluded			proposed to evaluate potential impacts from Westinghouse operations. EPA has also requested reanalysis of groundwater samples for SVOCs.
Cargill-Irving Grain Elevator	5561	Bank Erosion	Anticipated to be excluded	SCD anticipated in 2015	Low	Additional stormwater data collection was requested. The representativeness of the
		Stormwater	BMPs implemented in 2012; effectiveness pending		,	stormwater results presented in the SCM Report is unknown without additional information, and the conclusions presented cannot be confirmed. Additional SCMs and stormwater sampling are necessary.
Pearl - RM 10.3 - 11.8 W		Victoria de la Constitución de l	The same of parties of the same of the sam		and the sales at	
Sulzer Pump	1235	Stormwater	Stormline cleanout in 2006 & 2012, outfalls abandoned & treatment system installed in 2013; effectiveness pending	SCD anticipated in 2015	Low	Follow-up is needed to ensure stormwater BMPs are implemented effectively. Review of updated stormwater treatment system and performance monitoring results is needed to determine if the stormwater pathway is controlled. Long-term
		Groundwater	UST/soil removal in 1980s - Uncontrolled			stormwater monitoring under the NPDES permit will be needed to confirm that contaminants are not discharging to the river. Chlorinated VOCs and PAHs have been detected in groundwater at the site and the groundwater pathway has not
	Overland Flow Addressed in stormwater evaluation			been characterized. A groundwater SCE should be completed and, if needed, SCMs implemented to prevent discharge of contaminated groundwater to the river. Long term groundwater monitoring will be needed to confirm that site contaminants are not discharging to the river.		
Centennial Mills	5136	Stormwater	Redevelopment with BES stormwater manual anticipated in 2016	SCD issued in 2014 (excluded	Low	SCD excluded a portion of the site along the Tanner Creek sewer pipe that will be
	H	Groundwater	Excluded w/ portion deferred to Tanner Creek pipe remediation -	Tanner Creek pipe area)		investigated for the groundwater pathway. Results of this work will need to be reviewed to determine needs for a source control measure(s).
Pacific States Galvanizing	1024	Groundwater	UST/soil removals in 1996, 1998, & 2002 - Uncontrolled	Not currently in program	Low	No information is available on this site.
Pearl Building	4960	Groundwater	Soil removal in 2000 & 2003, deferred to BNSF remediation - Uncontrolled	Not currently in program	Low	No information is available on this site.
Albers Mill Property	4590	Multiple	No response to 2006 site assessment request	Not currently in program	Low	No information is available on this site.

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Swan Island/Mocks Bottom Georegion RM E	3.1 - 9.9 E		THE RESERVE THE PERSON NAMED IN COLUMN 2 I			THE RESERVE OF THE PARTY OF THE	
US Navy Reserve	5100	Stormwater	Referred to EPA in 2012		Medium	See information provided in EPA Report.	
US Coast Guard	1338	Stormwater Overland Flow	Stormline cleanout & BMPs in 2013; effectiveness pending Addressed in stormwater evaluation	SCD anticipated in 2015	Low	No information has been reviewed for this site.	
Fred Devine	2365	Stormwater	BMPs in 2010; effectiveness pending	SCD anticipated in 2015	Low	No information has been reviewed for this site.	
Freightliner Truck Plant	2366	Groundwater	Vapor control & removal in 2010; effectiveness pending	Referred to EPA to 2012 Referred to EPA to 20			
		Stormwater	Stormline cleanout/repair & BMPs 2006-14; effectiveness pending				
Particular Stripper III (August 1975) P. Particul III. (A. S. S. Mari Francisco	Section Sect	characterization is needed. Outfalls P, E, and N need to be added to stormwater requiring treatment prior to discharge. Current bioinfiltration design needs to be revised to provide larger capacity. Electrocoagulation treatment needs further review. Long-term monitoring will be needed including NPDES permit constituents and PAHs, phthalate esters, PCBs, and TBT. Long-term inspection and maintenance					
			OU-1 SCM needed - Integrate with in-water remedy; OU-5 stabilization			5 are uncontrolled. For OU-5, review of upcoming SCD is needed for compatibility of the proposed riverbank SCM with the in-water remedy and to assess protectiveness A long-term inspection and maintenance of the bank stabilization will be needed. The OU-1 riverbank SCM and provisions for long-term inspection and maintenance of the riverbank will need to be included in the Portland Harbor in-water remedial	
End of Swan Island Lagoon	3901	Bank Erosion	Anticipated to be excluded	SCD anticipated in 2015	Low		
Freightliner Parts Plant	115	Groundwater	Anticipated to be excluded, pending further investigation	SCD anticipated in 2015	Low	No information has been reviewed for this site.	
		Stormwater	Stormline cleanout in 2007 & BMPs in 2007 & 2012; effectiveness pending				
EWH, LLC (Service Steel)	5685	Stormwater	Stormline cleanout & BMPs in 2013-14; additional SCMs needed -	SCD anticipated in 2015	Low	No information has been reviewed for this site.	
Guilds Lake Georegion RM 8.0 - 10.3 W					ALCOHOLD NO.		
Willbridge Railyard	3395	Stormwater	Stormline video in 2014; effectiveness pending	SCD anticipated in 2015	Low	No information has been reviewed for this site.	
Glacier Northwest Inc. (part of Front Avenue, LLP)	2378 & 1239			SCD anticipated in 2015		performance monitoring data to ensure the stormwater SCMs are protective of the river. Long-term stormwater monitoring under the NPDES permit is needed to	
						and maintenance of the stormwater treatment system will be needed to ensure tha the treatment system remains effective. EPA should evaluate the bank erosion	
		Bank Erosion					
Hampton Lumber (part of Front Avenue LLP)	5761 & 1239	Stormwater	BMPs; effectiveness pending	SCD anticipated in 2015	Medium until remedy	No information has been reviewed for this site.	
			water remedy		implemented	The second section of the second seco	
WALE PARKET PROPERTY.	4.000	Overland flow					
Tube Forgings (part of Front Avenue, LLF)	1239 2372	Stormwater					
Lakeside industries	2374	Groundwater	Anticipated to be excluded	SCD anticipated in 2016	Low	presents an insufficient evaluation of the groundwater pathway. Additional characterization of HVOC contamination in groundwater requested; on-site source of HVOCs to groundwater and potential impacts to the river via the groundwater pathway should be addressed. A long-term maintenance plan is needed for	

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Brazil	1026	Stormwater	Soil removal in 2014-15 - Uncontrolled	SCD anticipated in 2015	Low	No information has been reviewed for this site.
Mt. Hood Chemicals	81	Groundwater	In situ/vapor extraction in 2010-11	NFA anticipated in 2015	Low	Limited to no information has been reviewed for the site.
Calbug Metals, on Front St.	2454	Stormwater	Stormline cleanout/paving in 2005, BMPs in 2013-14; additional SCMs needed - Uncontrolled	SCD anticipated in 2015	Low	No information has been reviewed for this site.
Christensen Oil	2426	Groundwater Stormwater	Dual phase extraction in 2011-14 BMPs in 2013; effectiveness pending	SCD anticipated in 2014 (?)	Low	No information has been reviewed for this site.
Vanwater and Rogers (Univar)	330	Groundwater Stormwater	Vapor extraction/pump & treat in 2010; effectiveness pending Uncontrolled	EPA RCRA-lead	Medium	See information provided in EPA Report.
Guilds Lake Ruil Yard (BNSF)	100	Groundwater	Anticipated to be excluded	SCD anticipated in 2016	Low	EPA has concerns that the groundwater pathway has not been fully delineated and that there is insufficient evidence to exclude the stormwater pathway; EPA does no agree that the stormwater and groundwater pathways should be excluded from
		Stormwater	Excluded			source control at this site. Review of any updates to the SCE is needed to ensure the comments have been addressed and the stormwater and groundwater pathways a adequately characterized.
managan)		Sparge/pump & treat in 2007-14; effectiveness pending	SCD anticipated in 2016	High until remedy implemented	Limited to no information has been reviewed for the site. EPA should review	
			Addressed in stormwater evaluation			stormwater and groundwater SCMs to determine if pathways are adequately characterized and SCMs are protective of the river. EPA should review any revised FS for the riverbank design to ensure that comments to evaluate alternatives in the context of compatibility with in-water remedies are addressed. All future SCE, SCD
			Interim bank stabilization in 2013-14, SCMs needed - Integrate with inwater remedy			remedial design, and permitting documentation for the riverbank SCM should be reviewed by EPA for compatibility of the proposed riverbank SCM with the in-wat remedy and to evaluate protectiveness. Long-term inspection and maintenance of
			Stormline cleanout/paving/BMPs in 2013-14; effectiveness pending			the riverbank stabilization, stormwater BMPs, and the groundwater treatment system will be needed. Long-term monitoring of stormwater through the NPDES permit and groundwater monitoring will be needed to confirm treatment effectiveness.
Wirfs Property	2424	Groundwater	Uncontrolled Uncontrolled	SCD anticipated in 2015	Low	No information has been reviewed for this site.
Wilhelm Trucking	69	Stormwater	New storm system/paving/BMPs in 2013; effectiveness pending	SCD anticipated in 2015	Low	No information has been reviewed for this site.
Container Management	4784	Stormwater	Geotextile fabric/gravel at catch basins/BMPs in 2011; effectiveness pending needed - Uncontrolled	SCD anticipated in 2016	Medium	No information has been reviewed for this site.
Galvanizers Company	1196	Groundwater Stormwater	Excavation in 2001, excluded BMPs/treatment in 2007-10, diversion in 2011	SCD anticipated in 2015	Low	No information has been reviewed for this site.
Calbag Metals, Nicoli St	5059	Stormwater	Stormline cleanout/paving /BMPs/treatment in 2012; effectiveness pending	SCD anticipated in 2015	Low	No information has been reviewed for this site.
Trumball Asphalt (Owens Corning Yeon)	1160	Groundwater	Refused to enter Voluntary Cleanup Program - Uncontrolled	Not currently in program	Low	No information is available on this site.
Eastman Chemical Company	135	Stormwater	Needs investigation	Part of Guilds Lake Rail Yard	Low	No information has been reviewed for this site.

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St. Johns Georegion RM 5.1 - 8.1 E		MANUAL PROPERTY.	THE RESIDENCE OF CHILDREN SERVICES.				
(Priority in color-coding w/ Fort #	Overland Flow	Characterization ongoing - Uncontrolled	SCD anticipated in 2015	Low	No information has been reviewed for this site.		
		Bank Erosion	Soil removal in 2001; anticipated to be excluded			Review of the revised SCE when available is needed to confirm that comments on the March 2013 SCE were addressed and the overland flow and groundwater pathways are adequately characterized. Review of the SCE is needed to confirm that the bank erosion pathway is adequately addressed and SCMs are compatible with the in-water remedy. The SCE will need to address any upland sources of contamination to the river that are not addressed during the upland removal actions that are being implementing. Long-term inspection and maintenance of the river bank will be needed. Long-term groundwater monitoring may be needed pending completion of the groundwater SCE. See information provided in EPA Report. Proposed SCD withdrawn so additional soils SCMs can be completed. Bill EPA and the PRPs are working cooperatively to implement the hydraulic control & containment (HC&C) system which has the overall DQO of complete hydraulic capture across the site. DEQ and EPA are concerned with the slow pace for implementation of source control for the Fill WBZ. Continued review of monitoring reports for the hydraulic control & containment (HC&C) system will be needed to ensure the overall DQO of complete hydraulic capture across the site. DEQ and EPA are concerned with the slow pace for implementation of source control for the Fill WBZ. Continued review of monitoring reports for the hydraulic control & containment (HC&C) system will be needed to ensure the overall DQO of complete hydraulic capture across the site is being met. No stormwater source control reports have been reviewed; however stormwater is not a major pathway of concern.	
		Groundwater	Uncontrolled				
Willamette Cove	2066	Overland Flow	Soil removal in 1999, 2004, 2008, & 2014	SCD anticipated in 2015	Medium until in-water remedy completed	the March 2013 SCE were addressed and the overland flow and groundwater pathways are adequately characterized. Review of the SCE is needed to confirm that	
		Bank Erosion	Sand removal in 2006, SCMs needed - Integrate with in-water remedy			contamination to the river that are not addressed during the upland removal actions that are being implementing. Long-term inspection and maintenance of the river bank will be needed. Long-term groundwater monitoring may be needed	
		Groundwater	Anticipated to be excluded				
Triangle Park (UoP River Campus)	277	Overland Flow	Soil removal/cap in 2012	4	Low	See information provided in EPA Report.	
		Bank Erusion	Soil removal/cap in 2012			D. Josephill Divid Land L. Land	
Peninsula Iron Works	5686	Stormwater	Uncontrolled	SCD anticipated in 2015	Low	Proposed SCD withdrawn so additional soils SCMs can be completed.	
	8.0 W						
U.S. Moorings	1641	Overland Flow	Vegetated buffer selected	EPA led	High until in-water remedy implemented at GASCO	See information provided in EPA Report.	
A STATE OF THE PARTY OF THE PARTY.		Bank Erosion	Monitoring selected				
of the last to the		Groundwater	Monitoring selected w/ SCMs planned on adjacent Gasco site	1			
		Stormwater	NPDES 1200Z implementation				
Marthurst America - British V Stra	111		SCMs needed - Integrate w/ in-water remedy SCMs needed - Integrate w/ in-water remedy	SCD anticipated in 2016	High until in-water & fill portion upland remedies		
			Alluvium portion containment in 2015; effectiveness pending		implemented	capture across the site. DEQ and EPA are concerned with the slow pace for	
	Fill portion - Uncontrolled implementation of source control for Uncontrolled - to be addressed in upland remedy reports for the hydraulic control & control & Uncontrolled - to be addressed in upland remedy						
			Spill plan and BMPs			No stormwater source control reports have been reviewed; however stormwater is	
Siltronic Site	183	Groundwater	In-situ treatment in 2009, containment in 2015; effectiveness pending	SCD anticipated in 2016	High until in-water & fill	See Gasco information above.	
		Overland Flow	SCMs needed - Integrate w/ in-water remedy		portion upland remedies		
		Bank Erosion	In-situ treatment in 2009, containment in 2015; effectiveness pending Fill portion - Uncontrolled		implemented		
		Stormwater	1200Z permit and BMPs; effectiveness pending				
Rhone Poulenc	155	Geoundwater	OF 22B pipe re-lining in 2012 - Uncontrolled	SCD anticipated in 2016	Medium	characterization of the groundwater pathway is incomplete, particularly in the buried side channel flow path and in preferential flow along the backfill of OF22B; groundwater monitoring program is inadequate to evaluate effectiveness of the OF22B IRAM to prevent migration of groundwater via inflow to the pipe and preferential flow along the pipe backfill; and proceeding with the FS is premature due to inadequate characterization of the groundwater pathway. Characterization of the groundwater pathway is incomplete. Additional characterization of the groundwater pathway from source areas to the river should be completed and the CSM presented in the RI/SCE and Supplemental Section 8 should be updated. Bases upon the revised CSM, SCMs should be designed and implemented to prevent discharge of contaminated groundwater to the river. A long-term groundwater monitoring program should be implemented. SCMs to control stormwater discharges to the river and a monitoring of stormwater discharge for NPDES	
	-	Stormwater	Uncontrolled	-			
		Bank Erosian	SCMs needed - Integrate w/ in-water remedy	1		compatible with the in-water remedy and protective of the river; long-term	

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Priority in color-coding W/ end provided at end of table) Train Teed Rooting (GS Rooting & Former Bird Site) Liberran (Willbridge Terminals) 1549	101	Samuel terror	Containment in 2014, portion of site - Uncontrolled	SCD anticipated in 2016	High until in-water remedy implemented	Monitoring data for the interim stormwater source control measure is moving in th right direction (deceasing DDx concentrations). There still is some concern with the
			Soil removal and cap in 2000, additional cap and treatment in 2012		7.50.30.50.50.50.50	representatitveness of some data (e.g., influent samples) but there is an adaptive management process in place to address issues. Need to review monitoring reports
			SCMs needed - Integrate w/ in-water remedy			for the groundwater extracton and treatment system once it moves beyond a "startup and optimization" phase into full operation. Continued review of the interim stormwater source control measure monthly
			Addressed in stormwater evaluation			monitoring reports is needed until a final remedy is in place for stormwater.
Certain Teed Roofing (GS Roofing & Former Bird Site)	117	Bank Erosion	Confirm during in-water remedy design if SCM is needed - Integrate with in- water remedy	SCD anticipated in 2015	Medium	The groundwater pathway needs further characterization to determine if SCMs are needed. EPA believes that SCMs are needed for bank soil and that the site
		Groundwater	Uncontrolled			groundwater needs more comprehensive characterization. Follow up review needed on revisions to the 2012 SCE to confirm that comments were addressed. A
		Stormwater	Stormline cleanout in 2013, BMPs; effectiveness pending			range of metals are present at concentrations exceeding SLVs in the riverbank soils and SCMs should be implemented to prevent erosion of the bank material to Saltzman Creek and the Willamette River. EPA will need to integrate the bank SCM into the in-water remedy. A long-term inspection and maintenance plan to maintain the bank SCM will need to be implemented.
Kinder Morgan (Willbridge Terminals)	1544 (160)	Overland Flow	Addressed in Stormwater & Bank Erosion Evaluations	SCD anticipated in 2015	Low	EPA is concerned that stormwater characterization is insufficient to support the SCD. Additional characterization of the stormwater pathway is needed and
		Groundwater	Saltzman Creek flume repairs in 2007 & 2009		3-50-02	
		Stormwater	1200Z BMPs; effectiveness pending			additional SCMs may be warranted. Review of the revised SCE is needed to confirm
		Overwater Activities	Spill plan & BMPs			that comments are addressed. EPA is concerned that the groundwater pathway is not sufficiently characterized, in particular with the delineation of NAPL between MW-7 and Saltzman Creek. Additional characterization of the groundwater and bank ergision pathway is needed prior to the SCD. Review of the revised SCE is needed to confirm that their comments are addressed. Bank soils in the dock area have DDx, arsenic, copper, lead, manganese, and zinc concentrations exceeding background levels and the adjacent offshore area has been identified as a benthic risk area.
Chevron (Willbridge Terminals)	1549 (25)	Overland Flow	Addressed in Stormwater & Bank Erosion Evaluations	SCD anticipated in 2015	Low	EPA reviewed the Groundwater SCE Report for informational purposes; DEQ is
		Groundwater	Removal/containment in 2006-08			working with the RP on addressing extensive comments from their review. EPA wil
		Storrewater	OF-22 repairs in 2009; effectiveness pending			need to complete a full review of the SCE Report when revised.
		Overwater Activities	Spill plan & BMPs			
Conoca Phillips (Willbridge Terminals)	1549 (177)	Overland Flow	Addressed in Stormwater & Bank Erosion Evaluations	SCD anticipated in 2015	Low	EPA reviewed the Groundwater SCE Report for informational purposes; DEQ is
		Groundwater	Removal/containment in 2001			working with the RP on addressing extensive comments from their review. EPA wil
		Stormwater	On-site repairs in 2006, OF-22 repairs in 2009; effectiveness pending			need to complete a full review of the SCE Report when revised.
Santa Fe Pacific Pipelines (Kinder Morgan)		Overwater Activities	Spill plan & BMPs			
	2104	Groundwater	Soil vapor extraction 2004-14; effectiveness pending	SCD anticipated in 2015	Low	No information has been reviewed for this site.

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T-4/International Slip Georegion RM 3.4 - 5.	1 E			Name and Address of the Owner, where the Party of the Par		
Time Oil	170	Groundwater	Soil removals in 2011, pump & treat from 2002; effectiveness pending	SCD anticipated in 2015	Low	Review of any revisions to the 2013 SCE is needed to confirm that comments were addressed. Of most importance is to confirm that the groundwater pathway has been adequately characterized and the data quality issues presented in comments on the SCE have been addressed. Performance monitoring to confirm that the groundwater treatment system is providing containment and is operating reliably in the state of
		Stormwater	System mostly abandoned in 2009, soil removals in 2011; effectiveness pending			needed. Post 2011 stormwater monitoring data should be evaluated to determine is addition stormwater SCMs are needed to achieve source control. Long-term inspection, maintenance, and monitoring plans for the groundwater and stormwater SCMs are needed.
Premier Edible Oils	2013	Overland Flow	Addressed in stormwater evaluation	SCD anticipated 2015	Medium until bank remedy	Review of pending groundwater SCMs is needed as work plans are developed.
		Himk Erosion	Removal & stabilization in 2014-15 - Uncontrolled	- Caronina Marianto	completed	
		Groundwater	Barrier wall planned in 2015 - Uncontrolled			
		Stormwater	SCMs are needed. SCMs are needed. SCMs are needed. Review of pending groundwater SCMs is needed as work plans are developed. Review of pending groundwater SCMs is needed as work plans are developed. Review of pending groundwater SCMs is needed as work plans are developed. Review of pending groundwater SCMs is needed as work plans are developed. Review of pending groundwater SCMs is needed as work plans are developed. Review of pending groundwater SCMs is needed as work plans are developed. Review of pending groundwater SCMs is needed as work plans are developed. Review of pending groundwater SCMs is needed as work plans are developed. Review of pending groundwater SCMs is needed as work plans are developed. Review of pending groundwater SCMs is needed as work plans are developed. Review of pending groundwater SCMs is needed as work plans are developed. Review of pending groundwater SCMs is needed as work plans are developed. Review of pending groundwater SCMs is needed as work plans are developed. Review of pending groundwater SCMs is needed as work plans are developed. Review of pending groundwater SCMs is needed as work plans are developed. Review of pending groundwater SCMs is needed as work plans are developed. Reviews on limited documents indicate that the characterization of the stormwater and groundwater pathways is incomplete and proposed stormwater sampling activities were not adequate for characterizing stormwater discharge from the site. Reviews on limited documents indicate that the characterization of the stormwater and groundwater pathways is incomplete and proposed stormwater sampling activities were not adequate for characterizing stormwater dand groundwater pathways is incomplete and proposed stormwater sampling activities were not adequate for characterizing stormwater discharge from the site. Reviews on limited documents indicate that the characterization of the stormwater and groundwater pathways is incomplete and proposed stormwater and groundwate			
RoMar (Schnitzer Burgard Industrial Park)	2437 (5324)	Stormwater	Uncontrolled.	SCD anticipated in 2016		and groundwater pathways is incomplete and proposed stormwater sampling
Lampros Steel (Schnitzer Burgard Industrial Park)	2441 (5324)	Stormwater	Uncontrolled.	SCD anticipated in 2016		and groundwater pathways is incomplete and proposed stormwater sampling
Boydston Metal Wurks, Inc. (Schnitzer Burgard Industrial Park)	2362 (5324)	Stormwater	Uncontrolled.	SCD anticipated in 2016		and groundwater pathways is incomplete and proposed stormwater sampling
Portland Container Repair Corp. (Schnitzer Burgard Industrial Park)	2375 (5324)	Stormwater	Uncontrolled.	SCD anticipated in 2016		and groundwater pathways is incomplete and proposed stormwater sampling
Northwest Pipe and Caving (Schnitzer Burgard	138 (5324)	Stormwaler	Treatment in 2012	SCD anticipated in 2015	Low	Long-term stormwater monitoring under the NPDES permit is needed to ensure the
Industrial Park)		Groundwater	Excluded			the stormwater collection and treatment system is preventing discharge of metals, PAHs, and PCBs to the river. Long-term inspection and maintenance of the stormwater collection system, stormwater treatment system, and the engineered caps are needed to ensure that stormwater SCMs remain effective. EPA does not agree with the SCE conclusion that the groundwater pathway is not complete. Addition groundwater monitoring data from wells in the Southeast Area and Terminal 4 should be presented to PCE and related VOC concentration trends and the groundwater pathway to the river. EPA does not agree that there has been sufficient characterization to conclude that the groundwater pathway is incomplet and further characterization is needed. Continued monitoring is needed to ensure the effectiveness of the stormwater SCMs. Long-term operation and maintenance plan for the stormwater collection and treatment system are needed. Institutional controls should be established to prevent future activities that could compromise the cap.
ocionamentos)	= 100	(Deletaring 1915 and benda Esteration Optimistic all a Proposition of the persons	Asphalt berm in 2009 Interim SCM in 2015, SCMs needed - Integrate w/ in-water remedy Anticipated to be excluded Pave and treatment in 2012, treatment in 2015 - Uncontrolled BMPs in 2014 BMPs in 2014	SCD anticipated in 2017	High until remedy & SCMs implemented	Limited to no information has been reviewed for this site.

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Terminal 4 Stip 1	2356	Overland Flow	Addressed in stormwater evaluation	SCD anticipated in 2015		The PRP is moving forward with work which appears will lead to the design of an	
	Line F	Bank Erosion	Regrade/cap in 2008			effective stormwater source control measure. Implementation of additional SCMs should occur throughout Basins L and M until pollutant source areas are properly	
		Stormwater	Cleanout/BMPs in 2013; effectiveness pending		7	evaluated and documented; multiple composite samples should be collected to evaluate effectiveness of SCMs.	
Terminal 4 Slip 3	272	Overland Flow	Soil removal/cap in 2009, SCMs needed - Integrate w/ in-water remedy	SCD anticipated in 2015	Medium until SCMs implemented	EPA has suggested the PRP properly abandon wells screened across water-bearing zones and sample alluvial zone to ensure no groundwater pathway for diesel	
		Bank Erosion	Bank soil removal in 2004, soil/NAPL removal in 2004-13		impiemented	migration to river; the PRP has developed a plan to address concerns. EPA still	
		Groundwater	Cleanout/BMPs in 2013; effectiveness pending	i		concerned about potential impacts to alluvial water-bearing zone,	
Borden Chemical, Inc.	1277	Groundwater	Needs investigation	Not currently in program	Low	No information is available on this site.	
Crown Cork & Seal Facility	5864	Groundwater	Under investigation - Uncontrolled	SCD anticipated in 2015	Low	Work plan for groundwater assessment was reviewed with no issues noted.	
Linnton Georegion RM 3.0 - 6.0 W	ESTREET	S SUMMER STORY			ESTATE VIEW DE LA COMPANIA DE LA CO		
Owens Corning Fiberglass	1036	Stormwater	SCMs & BMPs in 2009-14; effectiveness pending	SCD anticipated in 2015	Low	No information has been reviewed for this site.	
Kinder Morgan Limiton Terminal	1096	Overtand Flow	Addressed in stormwater evaluation	SCD anticipated in 2015	Low	Followup on comments on earlier documents requesting that a comprehensive SCE	
Commission of the Commission o	Seal Facility 5864 3.0 - 6.0 W g Fiberglass 1036 naton Terromal 1096		Bank Erosion	Anticipated to be excluded			for the site be completed is needed. The SCE should be reviewed to confirm that the
		Groundwater	Barrier wall in 2011-12; effectiveness pending			stormwater and groundwater pathways have been adequately characterized.	
		Stormwater	BMPs in 2010; effectiveness pending	1		Review of the results of the porewater investigation and performance monitoring to	
		Overwater Activities	Spill plan & BMPs; effectiveness pending			Review of the results of the porewater investigation and performance monitorie evaluate the effectiveness of the barrier wall and the stormwater BMPs is neede Long-term groundwater and stormwater monitoring will be needed to confirm contaminants are not discharging to the river. Long-term inspection and maintenance of the barrier wall and stormwater BMPs will be needed to ensure these SCMs remain effective.	
BP Terminal 22 T (Arco)	1528	Overland Flow	Addressed in stormwater evaluation	SCD anticipated in 2016	Low	Additional SCMs are needed to address plume that moved onto the former Linnton	
		Bank Erosion	Removal in 2008		127.0925	Plywood facility. Review of expanded hydraulic containment and performance	
		Groundwater	Pump & treat/contain in 2007, expanded hydraulic containment in 2014-15			monitoring data to determine if the groundwater pathway is controlled is needed. Stormwater monitoring data should be reviewed to determine if the stormwater	
		Stormwater	Existing BMPs			BMPs are controlling stormwater discharges from the site. Long-term inspection,	
		Overwater Activities	Spill plan and BMPs			maintenance and monitoring plans for the groundwater and stormwater SCMs are needed.	
Shuro Terminals [includes former NuStar (1989) &	5130 (1989	Dverland Flow	Addressed in stormwater evaluation	SCD anticipated 2015	Low	Review groundwater and stormwater monitoring is needed to assess effectiveness	
Exxon-Mobil (137)]	&:137) -	Groundwater	Containment in 1980s, sparge/extract in 2005-14; effectiveness pending				
		Stormwater	Existing BMPs; effectiveness pending	1	l	of treatment system and BMPs and determine if additional SCMs are needed to address the groundwater and stormwater pathways. Elevated zinc has been	
THE RESERVE OF THE PARTY OF THE		Overwater Activities	Spill plan & BMPs	1		observed downstream Outfall 001, and EPA recommends that SCD include addition of BMPs to reach 1200-Z benchmarks.	
Brix Maritime (Foss)	2364	Overland Flow	Addressed in stormwater evaluation	SCD anticipated in 2015	Low	No information has been reviewed for this site.	
bets martine (cons)		Groundwater	Anticipated to be excluded	1			
	1	Stormwater	BMPs; effectiveness pending	1			
Transloader International Company	2367	Multiple	No response to 1999 site assessment request	Not currently in program	Low	No information is available on this site.	

Site (Priority in color-coding w/ legend provided at end of table)	DEQ ECSI#	Pathway(s)	Source Control Measures Status	DEQ Decision Document Target	Recontamination Potential Assigned by DEQ	EPA Comments/Concerns/Needs
Rivergate Georegion RM 1.9 - 3.4 E		THE RESERVE TO SERVE THE RESERVE TO SERVE THE RESERVE TO SERVE THE RESERVE THE	AND REPORTS OF THE PERSON.			
Euraz Oregon Steel Mills	141	Overland Flow	Addressed in stormwater evaluation	NFA/SCD anticipated 2016	High until bank remedy completed	EPA should confirm that fill material selected by the contractor for the 2015 bank stabilization SCM meets DEQ clean fill criteria and Portland Harbor PRGs. Upon
A CONTRACTOR OF THE PERSON OF		Stank Ernston	Removal, cap, stabilization in 2015 - Uncontrolled			completion of the riverbank SCM, EPA should review the long-term operation and
	-	Stormwaller	Treatment & BMPs in 2010: effectivness pending			maintenance plan to ensure that an adequate monitoring plan is in place to maintain
		Groundwater	Anticipated to be excluded			the capping soil on the bank and along the upper beach. EPA should followup on post-riverbank SCM groundwater monitoring to confirm that the groundwater pathway has been adequately characterized for Mn as PRP plans to conduct monitoring after riverbank SCM is implemented. EPA should review any modifications to the stormwater treatment system and performance monitoring data to ensure the stormwater SCMs are protective of the river. Long-term stormwater monitoring under the NPDES permit is needed to confirm that contaminants are not discharging to the river. Long-term inspection and maintenance of the stormwater treatment system will be needed to ensure that the treatment system remains effective.
JR Simplot (Unocal)	3343	Multiple	Needs investigations	Not currently in program	Low	No information is available on this site.
Consolidated Metco	3295	Stormwater	Cleanout/repair in 2010, redevelopment with system in 2012-13	NFA in 2011; SCD anticipated in 2015	Low	No information has been reviewed for this site.
Ash Grove Cement	4696	Multiple	Needs investigations	Not currently in program	Low	No information is available on this site.
Outfalls				Control of the last of the las		
ODOT Outfalls/Roadways	5437	Stormwater	Identified plan & schedule for BMPs - Uncontrolled	Not identified	Medium until SCMs implemented	No information has been reviewed for these sites.
City of Portland Outfalls	2425	Stormwater	Stormwater from the 39 City outfalls investigated is considered controlled; effectiveness pending	Not identified	Low to Medium	EPA agrees with DEQ's conclusion that the stormwater pathway via the City of Portland Outfalls is controlled. Long-term monitoring of stormwater discharge from select outfalls will be needed to ensure that contaminants are not discharging to the river.

NOTES:

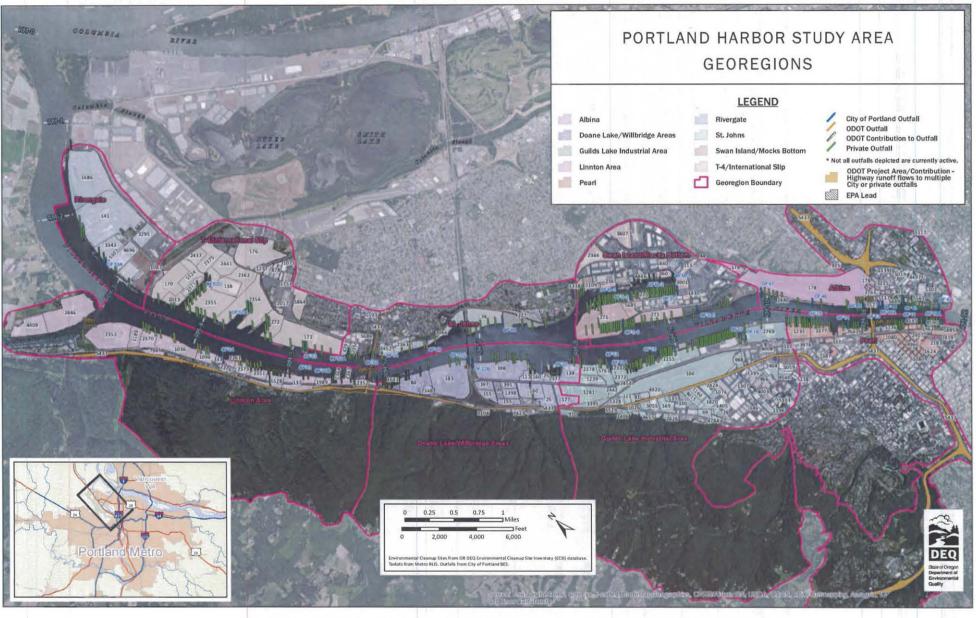
Bold - site is listed in DEQ's Portland Harbor Upland Source Control Summary Report as having an uncontrolled pathway(s) and an assigned recontamination potential of medium to high. Italics - site is listed in DEQ's Portland Harbor Upland Source Control Summary Report as having an uncontrolled pathway(s) and an assigned recontamination potential of low. Colored shading is the worry index code derived from CDM Smith and EPA's reviews of site documents.

lode:		
O FIRE	and the Human Lover of Minimizer	
trange: Fla	agged for High Level of Attention	i
urple: Fla	agged for Mederate Level of Attent	ion
reen: EP	A Site	i
	A Site Not Flagged for Attention	

DEQ PORTLAND HARBOR STUDY AREA GEOREGIONS FIGURES FROM PORTLAND HARBOR UPLAND SOURCE CONTROL SUMMARY REPORT (NOVEMBER 2014)

DEO PORTLAND HARROR STUDY AREA GEORGEOTONS PLOURES PORTLAND HARROR UPLAND SOURCE CONTROL SUMMARY

(NOVEMBER 2014)



PORTLAND HARBOR GEOGRAPHIC REGION MAPS **KEY TO SYMBOLS**

Georegion Boundary Line

Site Boundary

EPA-Led

Early Action Areas

Willamette River mile (RM)



Railroads



Areas of Potential Concern



Draft Sediment Decision Units (EPA 2014)

Groundwater Plume Status



Uncontrolled



Control Measure in Place -Effectiveness Pending or Status Undetermined

Controlled or Excluded

Erodible Bank Status



DEQ Bank Actions



Expected DEO Bank Actions



Current & Future EPA Bank Actions

Source Control Measures in Place



Groundwater Containment



Stormwater Pipe Re-Lined



Groundwater Treatment or Removal



Soil or Sediment Removal



Stormwater Treatment System



Cap



Stormwater Permit / BMPs



City of Portland Outfall



ODOT Outfall

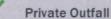


ODOT Contribution to Outfall



Port of Portland Outfall





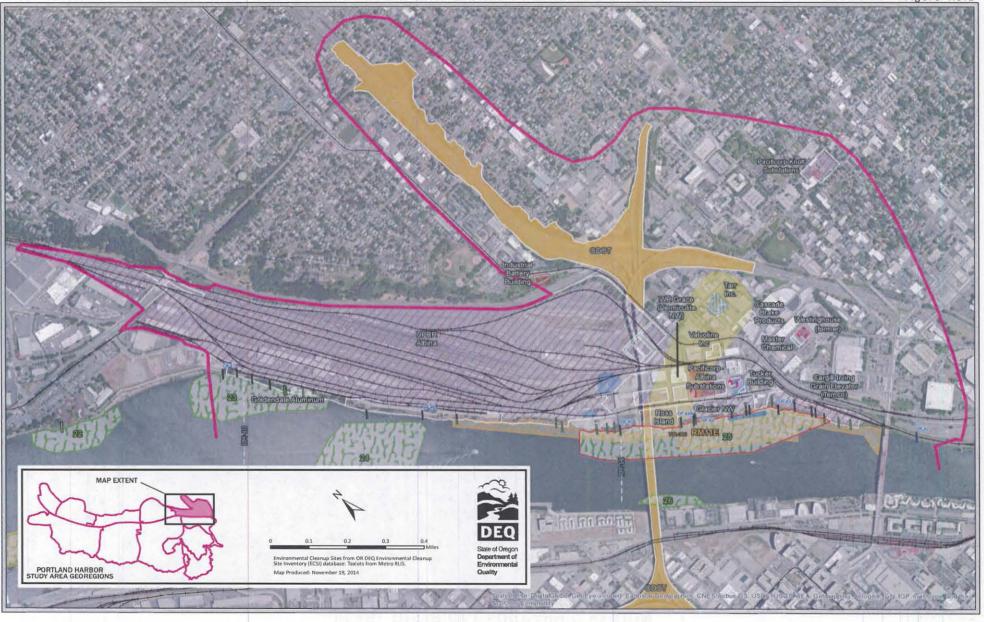
* Not all outfalls depicted are currently active.

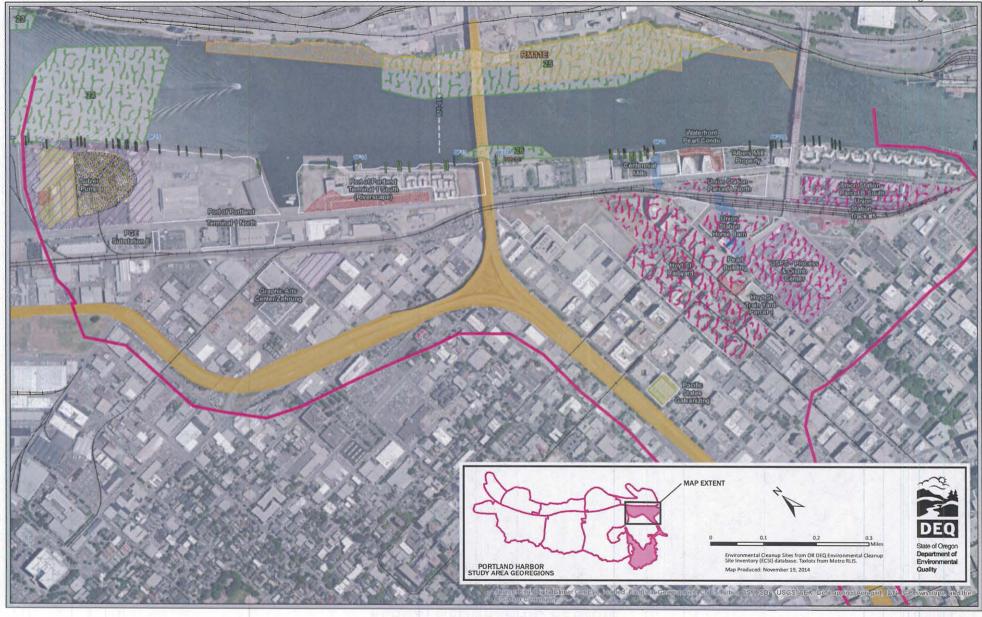


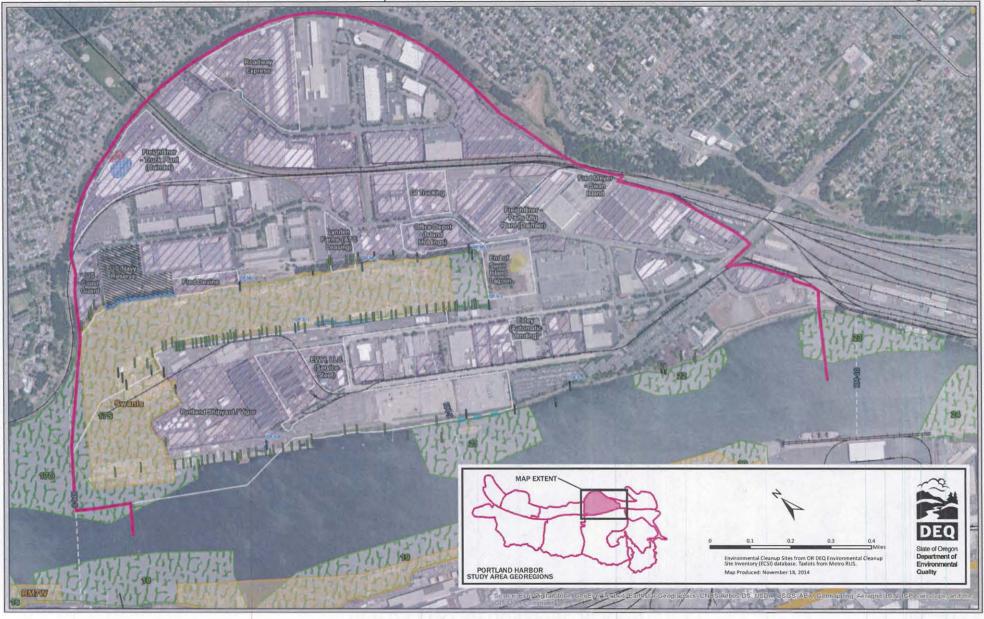
ODOT Project Area/Contribution -Highway runoff flows to multiple City or private outfalls



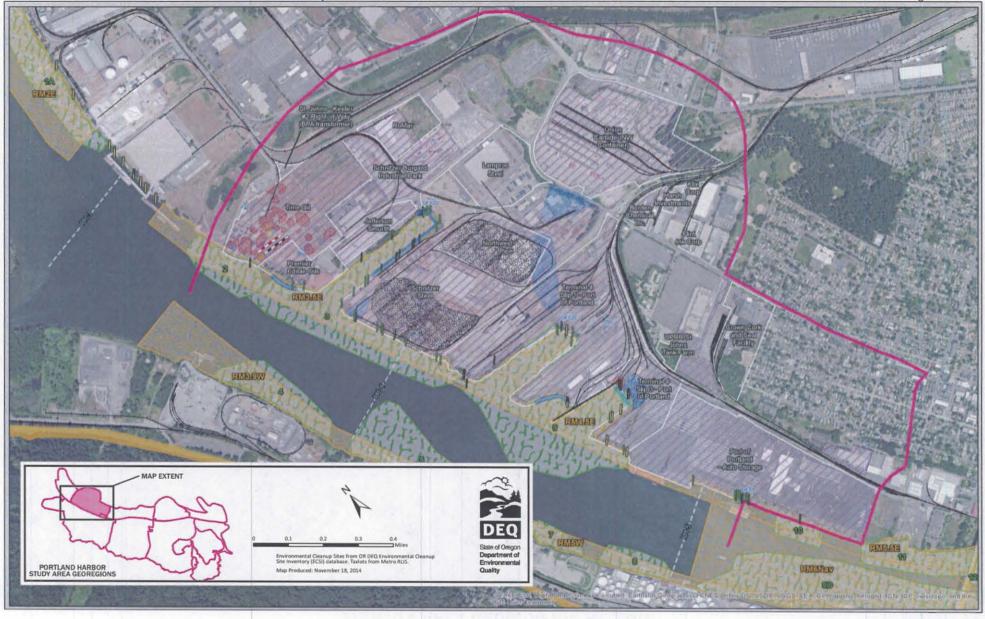
Environmental Cleanup Sites from OR DEQ Environmental Cleanup Site Inventory (ECSI) database. Taxlots from Metro RLIS. Outfalls from City of Portland BES. Date: 11/19/2014

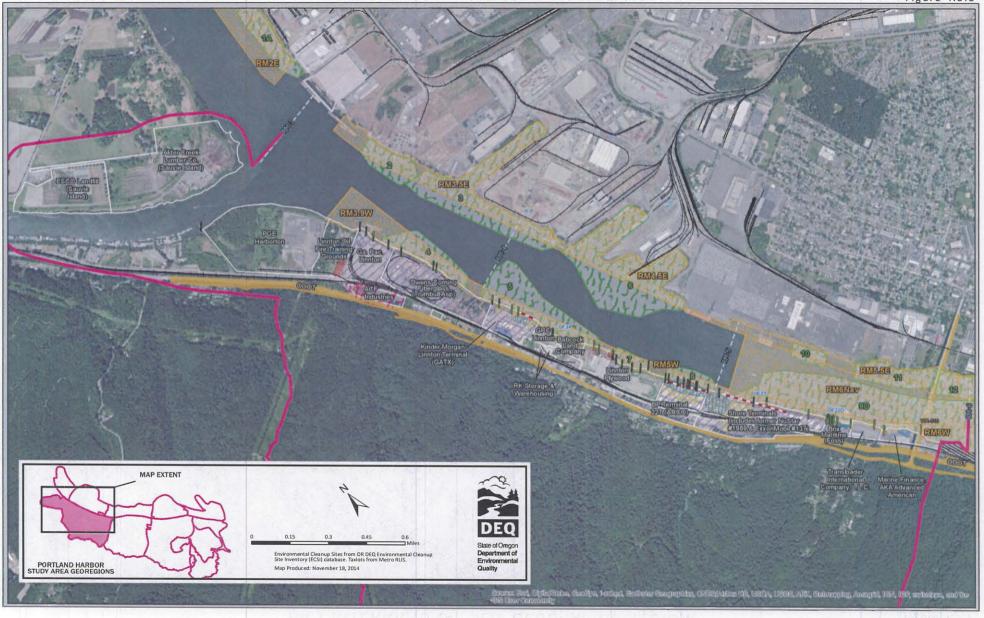




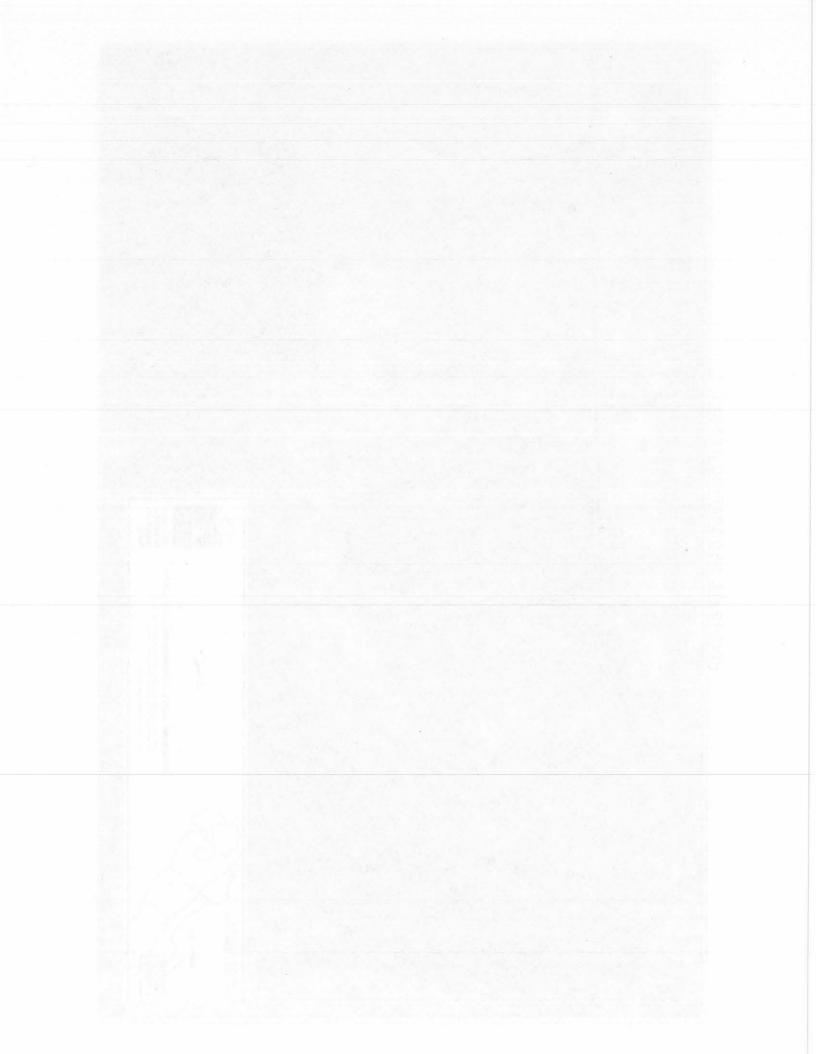












DOWNTOWN REACH "TALKING POINTS"

&

UPSTREAM SEDIMENT AND UPLAND SITES FIGURE

FROM

PORTLAND HARBOR UPLAND SOURCE CONTROL SUMMARY REPORT

(NOVEMBER 2014)

HOARD NWOTHWOO

2.

UPSTREAM SEDIMIENT AND

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PORTLAND HARROR UPLAND SOURCE CONTROL SUMMARY REPORT

(NOVEMBER 2014)

DOWNTOWN REACH CONCEPTUAL SITE MODEL AND ADDITIONAL DATA NEEDS

The most significant contaminated sites have been identified and are being addressed by DEQ.

DEQ has been working with responsible parties to clean up contaminated sediments in the Downtown Reach since the late 1980s.

PCBs, dioxins/furans, and PAHs are the primary contaminants in the Downtown Reach.

Sediment sites that have been cleaned up or are nearing the completion of their feasibility studies are: PGE Station L (1990), Ross Island Lagoon (2011), Zidell (2011), Northwest Natural PGM site (FS), PGE RM13.1 (FS) and PGE RM13.5 (FS).

In-water suspended sediment concentrations are currently much lower than remedial action levels (RALs) being evaluated in the Portland Harbor FS and are expected to decrease towards background concentrations following completion of additional Downtown Reach cleanups coupled with long term natural recovery.

The majority of stormwater draining to City outfalls in this reach has been redirected to the Columbia Blvd treatment plant or to infiltration. The City of Portland has also implemented best management practices in the limited areas where stormwater still drains to the Willamette.

There are no known or on-going upland sources adding to contaminant loads in this reach that will recontaminate future remedial action areas or substantially impede natural recovery throughout the Portland Harbor Study Area. However, multiple sources of lower level contamination can impede natural recovery. Consequently, baseline sampling will be conducted after the Portland Harbor Record of Decision that will further evaluate the Downtown Reach contaminant load to Portland Harbor.

The Downtown Reach does not pose a recontamination threat to Portland Harbor and will not impede remedy implementation within Portland Harbor.

DEQ identified the following additional data needs:

- Sediment investigation in the vicinity of RM16W to RM17W to follow up on elevated PCB concentrations in fish tissue samples collected in 2012 by the Lower Willamette Group.
- Source control evaluation and sediment investigation at the historical Portland Ship Building Co site located in the vicinity of RM 15.5W by Willamette Park.
- Sediment investigation off shore of the South Waterfront CD Greenway site in the vicinity of RM 14.1W.
- Stormwater solids sampling and possible line cleaning in several major stormwater conveyance systems owned by the City of Portland and ODOT.